

EXHIBIT 1

CFS8DL5882A

Functional Description.

The security system receiver is part of Ademco's wireless 5800 alarm system.

The receiver receives messages which have been transmitted at 345Mhz +/-82kHz using on-off keyed AM modulation.

The receiver features antenna spatial diversity, i.e. it has two receive antennas which are alternately sampled for incoming signals.

EXHIBIT 2

Circuit Description.

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The receiver is constructed on a single PCB, which is connected to the security system control panel via a four-way ribbon cable and header.

The receiver is a single conversion superhet operating at 345MHz. The I.F. is 10.7MHz and the local oscillator operates at 355.7MHz. The input is filtered by helical filter L10, which also reduces local oscillator radiation out through the antennas.

The local oscillator is a 59.28333MHz Colpitts oscillator, Q1, Y1 etc. The tank circuit L1, C2, C3 selects the 6th harmonic to feed to mixer I.C. U1. The receiver output is detected by U1 internal detector and is fed to video circuitry and ultimately a microcontroller U8.